

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF : LEE  
FOR : IMPROVED FRAGMENT ELIMINATION  
SERIAL NO. : Unknown  
FILED : Herewith  
EXAMINER : Unknown  
ART UNIT : Unknown  
CONFIRMATION NO. : Unknown  
ATTORNEY DOCKET NO. : SVL920030114US1

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, 1.98 and MPEP § 609, applicant submits the following Disclosure Statement concerning art of which the applicant is aware. A copy of PTO-1449 is enclosed herewith.

This Information Disclosure Statement is not intended to constitute an admission that any patent, publication or other information referred to herein or submitted herewith is "prior art" for this invention unless specifically designated as such.

In accordance with the United States Patent and Trademark Office OG Notice dated 05 August 2003, waiving the requirement under 37 C.F.R. §1.98(a)(2)(i), for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003, Applicant has not enclosed copies of the cited U.S. patents with this Disclosure.

In accordance with 37 C.F.R. §1.97(g) and (h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Under § 1.98(a)(3), no concise explanation of relevance is required for information that is in the English language. Accordingly, the enclosed require(s) no further explanation (or no translation is available).

**US Patents:**

AA	US-2002/0069193	to	Beavin, et al.
AB	US-4,930,071	to	Tou, et la.
AC	US-5,966,704	to	Furegati, et al.
AD	US-5,987,453	to	Krishna, et al.
AE	US-6,067,452	to	Carino, Jr.
AF	US-6,282,537	to	Madnick, et al.
AG	US-6,345,267	to	Lohman, et al.
AH	US-6,411,951	to	Galindo-Legaria, et al.
AI	US-6,567,802	to	Popa, et al.
AJ	US-6,581,055	to	Ziauddin, et al.

**Other Art:**

AQ	JSJ Chen et al., "Domain-specific Semijoin: a new operation for distributed query processing", Information Science's, v52 n2 p165-83, 1990
AR	P. Goyal et al., "Query processing in distributed databases with nondisjoint data" Information Systems, v18 n7 p419-27, October 1993

Consideration of the appropriate paragraph(s) indicated below is respectfully requested:

☒ **WITHIN THREE MONTHS OF FILING:** Under § 1.97(b)(1), this Information Disclosure Statement is being filed within three months of the filing date of the application. Although it is believed no fee is necessary, any deficiency in fees should be charged to Deposit Account No. 06-0308.

☐ **BEFORE FIRST OFFICE ACTION:** Under § 1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. Although it is believed no fee is necessary, any deficiency in fees should be charged to Deposit Account No. 06-0308.

☐ **INTERNATIONAL SEARCH REPORT:** Under § 1.97(e)(1), the undersigned certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. Although it is believed no fee is necessary, any deficiency in fees should be charged to Deposit Account No. 06-0308.

☐ **BEFORE FINAL ACTION/WITH FEE:** Under § 1.97(c)(2), this information shall be considered if filed before the mailing date of a final action if accompanied by a fee in the amount of \$180.00 as required by §1.17(p). Accordingly, the necessary fee accompanies this Information Disclosure Statement. Any overpayment or deficiency can be charged to Deposit Account No. 06-0308.

☐ **PRIORITY CLAIM:** The attached PTO 1449 Form includes all patents, publications, or other information previously cited by or submitted to the Office in one or more prior applications from which the present application claims priority. These one or more prior applications are identified in the papers accompanying the filing of this application. In accordance with § 609 MPEP, only copies of art not previously submitted are enclosed.

It is respectfully requested that the attached document(s) be considered and officially cited in examination of this application.

Respectfully submitted,

FAY, SHARPE, FAGAN,  
MINNICH & McKEE, LLP

31 MAR 04  
Date

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CERTIFICATE OF MAILING

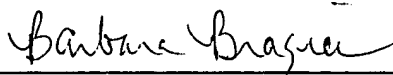
I certify that this Information Disclosure Statement and accompanying document(s) are being

☐ deposited with the United States Postal Service as First Class mail under 37 C.F.R. 1.8, addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

☐ transmitted to facsimile number under 37 C.F.R. 1.8 on the date indicated below.

☒ deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated below and is addressed to: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<b>Express Mail Label No.:</b> <b>EL 998014893 US</b>
<b>Date</b> <b>March 31, 2004</b>

<b>Signature</b> 
<b>Printed Name</b> <b>Barbara Brazier</b>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)</b> <i>(Use as many sheets as necessary)</i>	<b>COMPLETE IF KNOWN</b>	
	Application Number	Unknown
	Filing Date	Herewith
	First Named Inventor	LEE
	Art Unit	Unknown
	Examiner Name	Unknown
Sheet 1 of 1	Attorney Docket No.	SVL920030114US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-2002/0069193	June 6, 2002	Beavin, et al.	
	AB	US-4,930,071	May 29, 1990	Tou, et la.	
	AC	US-5,966,704	Oct. 12, 1999	Furegati, et al.	
	AD	US-5,987,453	Nov. 16, 1999	Krishna, et al.	
	AE	US-6,067,452	May 23, 2000	Carino, Jr.	
	AF	US-6,282,537	Aug. 28, 2001	Madnick, et al.	
	AG	US-6,345,267	Feb. 5, 2002	Lohman, et al.	
	AH	US-6,411,951	June 25, 2002	Galindo-Legaria, et al.	
	AI	US-6,567,802	May 20, 2003	Popa, et al.	
	AJ	US-6,581,055	June 17, 2003	Ziauddin, et al.	
	AK	US-			
	AL	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number Kind Code (if known)				
	AM					
	AN					
	AO					
	AP					

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published		T
	AQ	JSJ Chen et al., "Domain-specific Semijoin: a new operation for distributed query processing", Information Science's, v52 n2 p165-83, 1990		
	AR	P. Goyal et al., "Query processing in distributed databases with nondisjoint data" Information Systems, v18 n7 p419-27, October 1993		
	AS			
	AT			
	AU			
	AV			

Examiner Signature		Date Considered	
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